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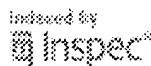
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Dept. of Electr. & Comput. Eng., Inst. of Commun. & Comput. Syst., Athens, Greece;

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Location: Athens

INSPEC Accession Number: 6117869

Digital Object Identifier: 10.1109/ISCC.1998.702477

Posted online: 2002-08-06 22:01:15.0

Abstract

In this paper the design and the implementation of an ATM **traffic generator** system is presented. The principles of this document follow the architecture presented in Hontas et al. (1997). It is based on a careful allocation of functions between hardware and software, in a way that it can support a high speed (155.52 Mbps) and, on the other hand, be flexible enough to emulate a wide range of profiles (VBR and CBR). The system is composed of a basic **traffic generator** and ATM and four peripheral cards for the support of different physical interfaces. The architecture is open to any future modifications concerning signalling and functionality. The software of the system runs under Windows NT.

Index Terms

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Author Keywords

Not Available

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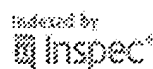
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ATM burst traffic generator

[Chu, P.P.](#)

Dept. of Electr. Eng., Cleveland State Univ., OH, USA;

This paper appears in: **VLSI, 1995. Proceedings., Fifth Great Lakes Symposium on**

Publication Date: 16-18 March 1995

On page(s): 262 - 265

Meeting Date: 03/16/1995 - 03/18/1995

Location: Buffalo, NY

INSPEC Accession Number: 5143931

Digital Object Identifier: 10.1109/GLSV.1995.516064

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Abstract

The Markov modulated process is widely used to model ATM (Asynchronous Transfer Mode) traffic sources because it can emulate the bursty and correlated traffic arrival. We propose a high-speed generator emulating the bursty behavior of the Markov process and develop circuits for a modulated process and an N-state homogeneous Markov modulated process. The generator traffic imitating cell arrival of various voice and video sources. Our test circuit can be fitted on a small sized FPGA chip and can generate up to 20M cell arrivals per second.

Index Terms

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[Markov processes](#) [asynchronous transfer mode](#) [field programmable gate array](#) [telecommunication traffic](#) [visual communication](#) [voice communication](#)

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Author Keywords

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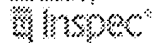
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